



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : R. Greven

Application No.: 09/236,017

Art Unit: 1733

Filed : January 22, 1999

Examiner: J. Rossi

For : COMPLEX SHAPED ARTICLES
AND METHOD OF MANUFACTURE

Commissioner of Patents and Trademarks
Washington, D.C. 20231

AMENDMENT UNDER 37 CFR 1.111

Dear Sir:

Responsive to the Office Action dated September 15, 2000, please enter the following amendments in the above captioned application:

IN THE CLAIMS:

Please replace claims 1, 6 and 7 with the following clean version of these claims:

1. A method for producing complex shaped articles comprising:

- (a) trimming, cutting and shaping a honeycomb core to a desired size and shape, said honeycomb core having a top surface, a bottom surface, a front end, a rear end, opposed sides, a longitudinal axis between said front end and said rear end and a transverse axis between said opposed sides;
- (b) deforming said honeycomb core at ambient temperature to impart a contoured shape along said longitudinal axis and across said transverse axis; and,
- (c) permanently setting the shape of said honeycomb core such that a contoured arc is defined in said honeycomb core extending along said longitudinal axis and a contoured arc is defined extending across said

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transverse axis enabling said complex shaped articles to be responsive to aerodynamic and hydrodynamic movement.

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6. A method for producing complex shaped articles comprising:

- (a) trimming a honeycomb core material to a desired size and shape, said honeycomb core material having a top surface, a bottom surface, a front end, a rear end, opposed sides, a longitudinal axis between said front end and said rear end and a transverse axis between said opposed sides;
- (b) seating the bottom surface of said sized and shaped honeycomb core material on a fixture, said fixture having a top wall, a bottom wall, opposed end walls and opposed side walls, said top wall having a contoured configuration defined therein;
- (c) applying pressure at ambient temperature to the top surface of said honeycomb core material until said honeycomb core material adapts to the contour configuration in the top wall of said fixture;
- (d) cutting said seated honeycomb core material to a desired thickness from said front end to said rear end on a horizontal plane substantially parallel to said longitudinal axis; and,
- (e) conformally bending said honeycomb core material by applying pressure at ambient temperature to the opposed sides of said cut honeycomb core material until a desired arcuate configuration is attained along said longitudinal axis and across said transverse axis enabling said complex articles to be responsive to aerodynamic and hydrodynamic movement.

2 7. The method of claim 6 wherein said contoured configuration in the top wall of said fixture is a concave, symmetrical contour defined between said opposed end walls and said opposed side walls. ^{open mold} ^{not said open mold}